

Optical Transport Systems

Course Length	2 days
Course Code	NFSOTS1
Prerequisites	A basic understanding of modern transport systems is helpful.
Course Overview:	This training course will focus on Fiber Optic technologies. Time will be spent talking about optical cables and the technologies that traverse them.

*This course can be customized or combined to meet specific system requirements

*Additional days can be added for extensive hands-on applications

Course Outline

Fiber Optics Overview

- Optics
- Industry
- Growth Potential

Background Review

- DS0/Low Speed Technologies
- T-Carrier Systems (T1, T3)
- Multiplexing Techniques

Fiber Optic Cables

- Glass v/s Plastic
- Light Sources
- Multimode v/s Single Mode
- Connector Types
- Standards/Specifications
- Cable Performance
- Loss and Dispersion

Fiber in the WAN

- Backbone Systems
- Carrier Systems



NetForce Solutions, Inc.
17281 Simmons Road
Purcellville, VA 20132

phone (540) 338-5824
fax (509) 757-1661

info@netforcesolutions.com

www.netforcesolutions.com

SONET

Building the Signal

STS

OCx

Overhead Functionality

Basic Speeds/Rates

SONET Equipment

Linear Systems

SONET Rings

WDM/CWDM/DWDM

Building the Signal

A different way of Multiplexing

Basic Speeds/Rates

Equipment

Systems/Networks

Passive Optical Networking (PON)

Optics in the Last Mile

Basic Speeds/.Rates

Equipment

PON with DSL

Systems/Networks

Fiber in the Future

New Technologies

Exploring the limits of Fiber



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